

ABSTRACT

A plasma generating electrode of the present invention includes a pair of unit electrodes 2, each of the pair of unit electrodes 2 including a plate-like ceramic body 19 and a conductive film 12 disposed inside the ceramic body 19 and including a plurality of protrusions 13 on a front surface, the pair of unit electrodes 2 constituting a basic unit 1 by being hierarchically layered at intervals corresponding to thickness of the protrusion 13 in a state that a plurality of spaces which are open on each end in the arrangement direction of the protrusion are formed, the basic units 1 constituting an electrode unit in which the basic units 1 are hierarchically layered at intervals corresponding to the thickness of the protrusion 13, and the plasma generating electrode being capable of generating plasma in the three-dimensionally arranged spaces V upon application of voltage between the unit electrodes 2 constituting the electrode unit. Therefore, the plasma generating electrode is capable of generating uniform and stable plasma and exhibiting excellent heat resistance.